
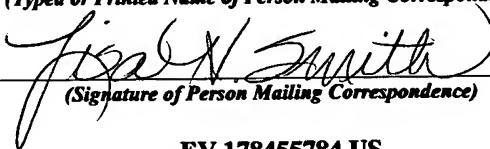


<b>CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.10)</b> Applicant(s): <b>Masahiko HIROSE</b>			Docket No. <b>04558.035002</b>
Serial No. <b>10/002,549</b>	Filing Date <b>November 2, 2001</b>	Examiner <b>David L. Sorkin</b>	Group Art Unit <b>1723</b>
Invention: <b>HIGHLY PERMEABLE COMPOSITE REVERSE OSMOSIS MEMBRANE AND METHOD OF PRODUCING THE SAME</b>			
			
I hereby certify that the following correspondence: <div style="border: 1px solid black; padding: 10px; margin: 10px 0;"><b>Reply Under 37 C.F.R. 1.116</b></div> <p style="text-align: center;"><i>(Identify type of correspondence)</i></p> <p>is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to: The Assistant Commissioner for Patents, Washington, D.C. 20231 on <u>September 30, 2002</u> <i>(Date)</i></p> <div style="text-align: right; margin-top: 20px;"><div style="margin-bottom: 5px;"><u>Lisa H. Smith</u> <i>(Typed or Printed Name of Person Mailing Correspondence)</i></div><div style="margin-bottom: 5px;"> <i>(Signature of Person Mailing Correspondence)</i></div><div><u>EV 178455784 US</u> <i>("Express Mail" Mailing Label Number)</i></div></div>			

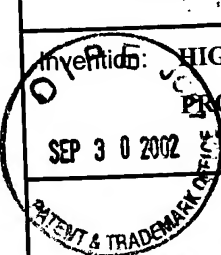
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<b>AMENDMENT TRANSMITTAL LETTER (Large Entity)</b>			Docket No. 04558.035002
Applicant(s): Masahiko HIROSE			
Serial No. 10/002,549	Filing Date November 2, 2001	Examiner David L. Sorkin	Group Art Unit 1723



Inventor: HIGHLY PERMEABLE COMPOSITE REVERSE OSMOSIS MEMBRANE AND METHOD OF PRODUCING THE SAME

TO THE ASSISTANT COMMISSIONER FOR PATENTS:

Transmitted herewith is an amendment in the above-identified application.  
The fee has been calculated and is transmitted as shown below.

CLAIMS AS AMENDED					
	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST # PREV. PAID FOR	NUMBER EXTRA CLAIMS PRESENT	RATE	ADDITIONAL FEE
TOTAL CLAIMS	4 -	20 =	0 x	\$18.00	\$0.00
INDEP. CLAIMS	1 -	3 =	0 x	\$84.00	\$0.00
Multiple Dependent Claims (check if applicable) <input type="checkbox"/>					\$0.00
TOTAL ADDITIONAL FEE FOR THIS AMENDMENT					\$0.00

- ☒ No additional fee is required for amendment.
- ☐ Please charge Deposit Account No. \_\_\_\_\_ in the amount of \_\_\_\_\_  
A duplicate copy of this sheet is enclosed.
- ☐ A check in the amount of \_\_\_\_\_ to cover the filing fee is enclosed.
- ☒ The Commissioner is hereby authorized to charge payment of the following fees associated with this communication or credit any overpayment to Deposit Account No. 50-0591  
A duplicate copy of this sheet is enclosed.
  - ☐ Any additional filing fees required under 37 C.F.R. 1.16.
  - ☒ Any patent application processing fees under 37 CFR 1.17.

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Dated: 9/30/02

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Signature of Person Mailing Correspondence	
Lisa H. Smith	
Typed or Printed Name of Person Mailing Correspondence	



ATTORNEY DOCKET NO.: 04558.035002  
UNITED STATES PATENT APPLICATION NO.: 10/002,549

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Masahiko HIROSE  
Serial No.: 10/002,549  
Filed : 11/2/2001  
Title : Highly Permeable Composite Reverse Osmosis Membrane and Method of Producing the Same

Art Unit : 1723  
Examiner : Sorkin, D.

Assistant Commissioner for Patents  
Washington, DC 20231

**REPLY UNDER 37 C.F.R. § 1.116**

Dear Sir:

In response to the Office Action dated August 1, 2002, please amend this application as follows and consider the included remarks.

**IN THE CLAIMS**

Please amend the claims as follows (A marked-up copy of the claims is provided in

**Appendix A):**

1. (Three Times Amended) A highly permeable composite reverse osmosis membrane comprising a thin film and a microporous support to support the thin film;

wherein the thin film is formed by reacting a polyvinyl alcohol-based amine compound having at least two amino groups with at least one substantially monomeric compound having at least two groups that react with the at least two amino groups on the polyvinyl alcohol-based amine compound,

and wherein the highly permeable composite reverse osmosis membrane having a salt rejection of no more than 80% as assessed with a pH 6.5 aqueous solution comprising 500 mg/liter of sodium chloride at an operation pressure of 5 kg/cm<sup>2</sup> and at a temperature of 25 °C.

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